CLAIMS

1	1. (original) A method for reducing spurious emissions in an amplified signal, the method
2	comprising the steps of:
3	(a) amplifying a first copy of an input signal by a first amplifier sub-system;
4	(b) amplifying one or more other copies of the input signal by one or more other amplifier
5	sub-systems;
6	(c) combining outputs from the first amplifier sub-system and the one or more other
7	amplifier sub-systems to generate a combined amplified output signal, wherein the first amplifier sub-
8	system:
9	(1) applies pre-distortion to the first copy of the input signal to generate a pre-
10	distorted first copy of the input signal, wherein the pre-distortion of the first copy of the input signal is
11.	based on the combined amplified output signal; and
12	(2) amplifies the pre-distorted first copy of the input signal to generate the output
13	from the first amplifier sub-system.
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1	2. (original) The invention of claim 1, wherein a portion of the combined amplified output
2	signal is tapped off and fed back to the first amplifier sub-system for use in pre-distorting the first copy
3	of the input signal.
1	3. (original) The invention of claim 1, wherein each other amplifier sub-system:
2	(1) applies pre-distortion to its copy of the input signal to generate a pre-distorted copy of
3	the input signal, wherein the pre-distortion of its copy of the input signal is based on only the output from
4	said each other amplifier sub-system; and
5	(2) amplifies the pre-distorted copy of the input signal to generate the output from said each
6	other amplifier sub-system.
1	4. (original) The invention of claim 1, wherein each other amplifier sub-system amplifies
2	its copy of the input signal without performing any pre-distortion.
1	5. (original) The invention of claim 1, wherein:
2	during initial operations, each amplifier sub-system pre-distorts its copy of the input signal based
3	on only the output from said each amplifier sub-system; and
4	after the initial operations, the first sub-system pre-distorts its copy of the input signal based on
5	the combined amplified output signal.
1	6. (original) The invention of claim 1, further comprising performing pre-distortion by one
2	of the one or more other amplifier sub-systems based on the combined amplified output signal in case of
3	failure of the pre-distortion processing of the first amplifier sub-system.
1	7. (original) An apparatus comprising:
2	a first amplifier sub-system adapted to amplify a first copy of an input signal;
3	one or more other amplifier sub-systems adapted to amplify one or more other copies of the
4	input signal;
5	a combiner adapted to combine outputs from the first amplifier sub-system and the one or more
6	other amplifier sub-systems to generate a combined amplified output signal, wherein the first amplifier
7	sub-system comprises:
8	(1) a pre-distortion block adapted to apply pre-distortion to the first copy of the
9	input signal to generate a pre-distorted first copy of the input signal, wherein the pre-distortion of the
10	first copy of the input signal is based on the combined amplified output signal; and

11 12	(2) a power amplifier adapted to amplify the pre-distorted first copy of the input signal to generate the output from the first amplifier sub-system.
1	8. (original) The invention of claim 7, wherein a portion of the combined amplified output
2	signal is tapped off and fed back to the first amplifier sub-system for use in pre-distorting the first copy
3	of the input signal.
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1	9. (original) The invention of claim 7, wherein each other amplifier sub-system comprises:
2	(1) a pre-distortion block adapted to apply pre-distortion to its copy of the input signal to
3	generate a pre-distorted copy of the input signal, wherein the pre-distortion of its copy of the input signal
4	is based on only the output from said each other amplifier sub-system; and
5	(2) a power amplifier adapted to amplify the pre-distorted copy of the input signal to
6-	generate the output from said each other amplifier sub-system.
1_{\searrow}	10. (original) The invention of claim 7, wherein each other amplifier sub-system is adapted
2	to amplify its copy of the input signal without performing any pre-distortion.
1	11. (original) The invention of claim 7, wherein:
2	during initial operations, each amplifier sub-system is adapted to pre-distort its copy of the input
3	signal based on only the output from said each amplifier sub-system; and
4	after the initial operations, the first sub-system is adapted to pre-distort its copy of the input
5	signal based on the combined amplified output signal.
1	12. (original) The invention of claim 7, wherein:
1	the one or more other amplifier sub-systems comprise a second amplifier sub-system adapted to
2 3	amplify a second copy of the input signal; and
4	the combiner is adapted to combine the outputs from the first and second amplifier sub-systems
5	to generate the combined amplified output signal.
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1	13. (original) The invention of claim 12, further comprising:
2	a first splitter adapted to split the input signal into the first and second copies of the input signal;
3	a first tap adapted to tap off a portion of the combined amplified output signal; and
4	a second splitter adapted to split the portion of the combined amplified output signal into two
5	copies, wherein each copy of the portion of the combined amplified output signal is fed back to a
6	different one of the first and second amplifier sub-systems.
1	14. (original) The invention of claim 13, wherein each amplifier sub-system further
2	comprises a switch adapted to select either the corresponding copy of the portion of the combined
3	amplified output signal or the output from said each amplifier sub-system for use in pre-distorting its
4	copy of the input signal.
1	15. (original) The invention of claim 7, wherein at least one of the one or more other
2	amplifier sub-systems is adapted to perform pre-distortion based on the combined amplified output
3	signal to provide a level of redundancy in case of failure of the pre-distortion processing of the first
4	amplifier sub-system.
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1	16. (new) The invention of claim 1, wherein step (c) comprises summing the outputs from
2	the first amplifier sub-system and the one or more other amplifier sub-systems to generate the combined
3	amplified output signal.

17. (new) The invention of claim 7, wherein the combiner is adapted to sum the outputs from the first amplifier sub-system and the one or more other amplifier sub-systems to generate the combined amplified output signal.

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